BEST AVAILABLE COPY

RECEIVED
CENTRAL FAX CENTER
JUN 15 2006

TREXLER, BUSHNELL, GIANGIORGI, BLACKSTONE & MARR, LTD.
COUNSELORS AT LAW
THE CLARK ADAMS BUILDING
105 WEST ADAMS STREET, SUITE 3600
CHICAGO, ILLINOIS 60603-6210
(312) 704-1890

FOUNDED 1890

PATENT, TRADEMARK, COPYRIGHT
AND RELATED MATTERS: ALL PHASES
INCLUDING LICENSING AND LITIGATION

FAX: (312) 704-8023
www.trexlaw.com

RICHARD R. TREXLER (1906-1995)
RICHARD BUSHNELL (1926-2004)
RICHARD A. GIANGIORGI
RAIFORD A. BLACKSTONE, JR.
DAVID J. MARR
LINDA L. PALOMAR
JAMES R. FOLEY
ROBERT J. DEPKE
JAMES A. O'MALLEY
TIMOTHY M. McCARTHY
PAIGE A. KITZINGER

LEWIS T. STEADMAN, SR.
OF COUNSEL

FACSIMILE TRANSMISSION

TOTAL PAGES (Including Cover Page) 12 DATE: June 15, 2006

TO: Commissioner of Patents and Trademarks
Attn.: Examiner Jeremy C. Norris

FROM: Mr. James R. Foley, Reg. No. 39,979

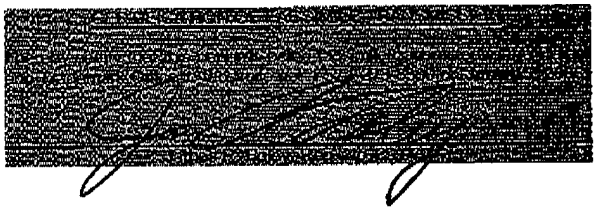
FAX NO: (571) 273-8300

FAX NO: (312) 704-8023

If you experience any difficulty with this transmission, please call (312) 704-1890 for assistance.

ORIGINAL COPY AND ENCLOSURES
___ WILL BE SENT BY ___ MAIL ___ COURIER
_✓_ WILL NOT BE SENT

NOTES:
Inventors: Anand Govind
For: Robust High Density Substrate Design
for Thermal Cycling Reliability
Serial No.: 10/681,554
Art Unit: 2841
Filed: October 8, 2003
Attorney Ref.: 03-0733



IMPORTANT NOTICE

This transmission (including all attached pages) is intended only for the use of the named addressee(s), and may contain information that is privileged or exempt from disclosure under applicable law. **IF YOU ARE NOT A NAMED ADDRESSEE, YOU ARE HEREBY NOTIFIED THAT ANY USE, DISSEMINATION, DISTRIBUTION OR COPYING OF THIS TRANSMISSION IS STRICTLY PROHIBITED.** If you have received this transmission in error, please destroy all copies and notify us immediately at this telephone number: (312) 704-1890.

BEST AVAILABLE COPY

RECEIVED
CENTRAL FAX CENTER
JUN 15 2006

FORM PTO-1083

Case No.03-0733

In re application of: Anand Govind et al.

Serial No.: 10/681,554

Filed: October 8, 2003

Art Unit: 2841

For: ROBUST HIGH DENSITY SUBSTRATE DESIGN FOR THERMAL CYCLING RELIABILITY

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office to fax number 1-571-273-8300 on June 15, 2006.

James R. Foley, Reg. No. 39,979

MAIL STOP: AMENDMENT
COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith is a Response to the Office Action mailed March 16, 2006.

The filing fee has been calculated as shown below:

	(Col. 1)		(Col. 2)	(Col. 3)	SMALL ENTITY			OTHER THAN A SMALL ENTITY	
	Claims Remaining After Amendment		Highest No. Previously Paid for	Present Extra	Rate	Addit. Fee	OR	Rate	Addit. Fee
TOTAL	* 13	MINUS	** 20	0	x 25 =	$ .00		x 50 =	$.00
INDEP.	* 2	MINUS	** 3	0	x 100 =	$ .00		x 200 =	$.00
☐ FIRST PRESENTATION OF MULTIPLE DEP. CLAIM					+ 180 =	$ .00		+ 360 =	$ .00
					TOTAL ADDIT. FEE	$ .00	OR	TOTAL	$.00

* If the entry in Col. 1 is less than the entry in Col. 2, write *"0"* in Col. 3.
** If the *"Highest Number Previously Paid For"* IN THIS SPACE is less than 20, write *"20"* in this space.
*** If the *"Highest Number Previously Paid For"* IN THIS SPACE is less than 3, write *"3"* in this space.
The *"Highest Number Previously Paid For"* (Total or independent) is the highest number found from the equivalent box in Col. 1 of a prior amendment or the number of claims originally filed.

☐ Please charge my Deposit Account No. 12-2252 in the amount of $_____. A duplicate copy of this sheet is enclosed.

☐ A check in the amount of_____ to cover the filing fee is also enclosed.

☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 12-2252. A duplicate copy of this sheet is enclosed.

☒ Any filing fees required under 37 CFR 1.16 for the presentation of extra claims.

☒ Any patent application processing fees under 37 CFR 1.17

Dated: June 15, 2006

James R. Foley Reg. No. 39,979
Attorney of Record

TREXLER, BUSHNELL, GIANGIORGI, BLACKSTONE & MARR, LTD. • 105 W. ADAMS ST. • CHICAGO, ILLINOIS 60603 • (312) 704-1890

BEST AVAILABLE COPY

FORM PTO-1083

Case No.03-0733

In re application of: Anand Govind et al.

Serial No.: 10/681,554

Filed: October 8, 2003

Art Unit: 2841

For: ROBUST HIGH DENSITY SUBSTRATE DESIGN FOR THERMAL CYCLING RELIABILITY

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office to fax number 1-571-273-8300 on June 15, 2006.

James R. Foley, Reg. No. 39,979

MAIL STOP: AMENDMENT
COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith is a Response to the Office Action mailed March 16, 2006.

The filing fee has been calculated as shown below:

	(Col. 1)		(Col. 2)	(Col. 3)	SMALL ENTITY			OTHER THAN A SMALL ENTITY	
	Claims Remaining After Amendment		Highest No. Previously Paid for	Present Extra	Rate	Addit. Fee	OR	Rate	Addit. Fee
TOTAL	* 13	MINUS	** 20	0	x 25 =	$ .00		x 50 =	$.00
INDEP.	* 2	MINUS	** 3	0	x 100 =	$ .00		x 200 =	$.00
☐ FIRST PRESENTATION OF MULTIPLE DEP. CLAIM					+ 180 =	$ .00		+ 360 =	$ .00
					TOTAL ADDIT. FEE	$ .00	OR	TOTAL	$.00

* If the entry in Col. 1 is less than the entry in Col. 2, write *"0"* in Col. 3.
** If the *"Highest Number Previously Paid For"* IN THIS SPACE is less than 20, write *"20"* in this space.
*** If the *"Highest Number Previously Paid For"* IN THIS SPACE is less than 3, write *"3"* in this space.
The *"Highest Number Previously Paid For"* (Total or independent) is the highest number found from the equivalent box in Col. 1 of a prior amendment or the number of claims originally filed.

☐ Please charge my Deposit Account No. 12-2252 in the amount of $_____. A duplicate copy of this sheet is enclosed.

☐ A check in the amount of _____ to cover the filing fee is also enclosed.

☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 12-2252. A duplicate copy of this sheet is enclosed.

☒ Any filing fees required under 37 CFR 1.16 for the presentation of extra claims.

☒ Any patent application processing fees under 37 CFR 1.17

Dated: June 15, 2006

James R. Foley Reg. No. 39,979
Attorney of Record

TREXLER, BUSHNELL, GIANGIORGI, BLACKSTONE & MARR, LTD. • 105 W. ADAMS ST. • CHICAGO, ILLINOIS 60603 • (312) 704-1890

COPY

PAGE 3/12 * RCVD AT 6/15/2006 6:09:30 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/15 * DNIS:2738300 * CSID:3127048023 * DURATION (mm-ss):03-40

BEST AVAILABLE COPY

RECEIVED
CENTRAL FAX CENTER

JUN 15 2006

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.:	10/681,554
Filed:	October 8, 2003
Title:	ROBUST HIGH DENSITY SUBSTRATE DESIGN FOR THERMAL CYCLING RELIABILITY
Inventors:	Anand Govind et al.
Art Unit:	2841
Examiner:	Jeremy C. Norris
Atty. Ref:	03-0733

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transmitted to the United States Patent and Trademark Office to fax number (571) 273-8300 on June 15, 2006.

James R. Foley, Reg. No. 39,979

RESPONSE TO THE OFFICE ACTION MAILED MARCH 16, 2006

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In the matter of the above-identified application and in response to the Office Action mailed March 16, 2006, kindly enter the following amendments and consider the following remarks toward reconsideration of the present application.